Year 4 Annual Report

Massachusetts Small MS4 General Permit Reporting Period: July 1, 2021-June 30, 2022

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2021 and June 30, 2022 unless otherwise requested.

Part I: Contact Information

Name	of Municipality or Organiz	zation:T	own of Carve	er					
EPA N	IPDES Permit Number: M	AR0410	199						
Primaı	ry MS4 Program Manag	er Cont	act Informat	tion					
Name:	John Woods			Title:	Director of	Operat	ions and M	laintenar	ice
Street	Address Line 1: 108 Main	Street							
Street	Street Address Line 2:								
City: Carver State: MA Zip Code: 02330									
Email:	John.Woods@carverma.g	30V		Phon	e Number:[508) 80	66-3425		
Storm	water Management Prog					the section of the section between the sec	V. 20 (b) 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
SWMF	P Location (web address):		www.carverm ater-managen			-maint	enance-dep	partment	/pages/
Date S	WMP was Last Updated:	June 202	22	. 330864 63 4					
If the S	SWMP is not available on	the web	please provid	de the phy	ysical addre	ss:			

Part II: Self-Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the most recent EPA approved Section 303(d) Impaired Waters List which can be found here: https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state

	www.epa.govimasregion 1	impaired waters as		
<u>Impairment(</u>	(s)		- - ·	
	⊠ Bacteria/Pathogens	☐ Chloride	Nitrogen	□ Phosphorus
	☐ Solids/ Oil/ Grease (Hy	ydrocarbons)/ Meta ^r	ls	
TMDL(s)				
In State:	☐ Assabet River Phospho	orus 🔲 Bact	eria and Pathogen	☐ Cape Cod Nitrogen
	Charles River Watersh	ed Phosphorus	☐ Lake and Pond	l Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	☐ Nitrogen	☐ Phosphorus
			Cl	ear Impairments and TMDLs
unchecked. Ad Year 4 Requir		e requested in later	sections.	
☐ require	oped a report assessing curre ements within the municipal f the SWMP, and:	-		
C	No updates were recomm	iended		
\mathcal{C}	Updates were recommend			letion for updates is/was:
	oped a report assessing local ructure practices allowable	l regulations to dete	rmine the feasibility o	of making green ade it available as part of the
C	No updates were recomm	ended		
C	Updates were recommend			letion for updates is/was:
	fied a minimum of 5 permitt BMPs to reduce impervious o	tee-owned properties		
an update on There was insanalysis. The	you would like to describe p previous incomplete milesto sufficient budget in PY4 to ese items will be completed search Reserve. The Town y	ones, or provide any complete the assess in PY5 with the ass	y additional details, pl ment of local regulationsistance of a grant from	lease use the box below: ons and the BMP retrofit m the Buzzard Bay National

	nents				

	<u>Annual</u>	Requirements
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Ø	Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
\boxtimes	Kept records relating to the permit available for 5 years and made available to the public
1 1	The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
	This is not applicable because we do not have sanitary sewer
	O This is not applicable because we did not find any new SSOs
	O The updated SSO inventory is attached to the email submission
	O The updated SSO inventory can be found at the following website:
\boxtimes	Updated system map due in year 2 as necessary
	Provided training to employees involved in IDDE program within the reporting period
\boxtimes	Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
	All curbed roadways were swept at least once within the reporting period
\boxtimes	Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
\boxtimes	Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
\boxtimes	Updated inventory of all permittee owned facilities as necessary
\boxtimes	O&M programs for all permittee owned facilities have been completed and updated as necessary
Ø	Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
\boxtimes	Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
	Inspected all permittee owned treatment structures (excluding catch basins)

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

The Town had limited budget to complete Year 4 requirements but will continue to make progress on outstanding requirements in Permit Year 5. The Town identified permittee owned structures in PY4 and will inspect them in PY5. Not all roads were swept this year due to delay in purchase of new Town sweeper.

Bacteria/ Pathogens (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

<u>Annual Requirements</u>

Public Education and Outreach*

Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate

Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria
* Public education messages can be combined with other public education requirements as applicable (se Appendix H and F for more information)
Optional: If you would like to describe progress made on any incomplete requirements listed above or provid any additional details, please use the box below:
The Carver Board of Health provides links to the MassDEP website about care and maintenance of septic systems.
Nitrogen (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)
Annual Requirements
Public Education and Outreach* Distributed an annual message in the spring (April/May) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers
Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
Distributed an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter
* Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)
Good Housekeeping and Pollution Prevention for Permittee Owned Operations
Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)
Nitrogen Source Identification Report
☐ Completed the Nitrogen Source Identification Report
O The Nitrogen Source Identification Report is attached to the email submission
O The Nitrogen Source Identification Report can be found at the following website:
Potential structural BMPs
Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in
the regulated area by the permittee or its agents was tracked and the nitrogen removal by the BMP was
☐ estimated consistent with Attachment 1 to Appendix H. The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen removed in mass per year by the BMP were documented.
O The BMP information is attached to the email submission
O The BMP information can be found at the following website:

Optional: If you would like to describe progress made on ar	y incomplete requirements listed above or provide
any additional details, please use the box below:	

There was insufficient budget in PY4 to complete the Nitrogen Source Identification Report and the BMP nitrogen removal tracking. These items will be completed in PY5 with the assistance of a grant from the Buzzard Bay National Estuarine Research Reserve. Not all roads were swept in Permit Year 4. Two municipally-owned stormwater treatment structures were identified.

Phosphorus (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)
Annual Requirements
Public Education and Outreach*
Distributed an annual message in the spring (April/May) encouraging the proper use and disposal of grass clippings and encouraging the proper use of slow-release and phosphorus-free fertilizers
Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
Distributed an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter
* Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)
Good Housekeeping and Pollution Prevention for Permittee Owned Operations Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)
Phosphorus Source Identification Report
☐ Completed the Phosphorus Source Identification Report
 The Phosphorus Sourchace Identification Report is attached to the email submission The Phosphorus Source Identification Report can be found at the following website:
Potential structural BMPs
Any structural BMPs already existing or installed in the regulated area by the permittee or its agents was tracked and the phosphorus removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated phosphorus removed in mass per year by the BMP were documented.
 The BMP information is attached to the email submission
The BMP information can be found at the following website:

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

There was insufficient budget in PY4 to complete the Phosphorus Source Identification Report and the BMP phosphorus removal tracking. These items will be completed in PY5 with the assistance of a grant from the Buzzard Bay National Estuarine Research Reserve. Not all roads were swept in Permit Year 4. Two

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municipally-owned stormwater treatment structures were identified.

Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:

The new Town Planner will be assisting the Town with regulatory review in PY5 to complete outstanding requirements.

The Town was awarded a grant from the Buzzard Bay National Estuarine Research Reserve Watershed Assistance program to implement NPDES requirements to improve water quality.

Part III: Receiving Waters/Impaired Waters/TMDL

Have yo submitte	ed?
	• Yes
	O No
If yes, o	describe below, including any relevant impairments or TMDLs:
and also	Ifall list has been updated based on the final field assessment. A final outfall map has been attached, o replaced in the Carver IDDE Plan. Based on review of the Massachusetts Final 2018-2020 Integrated Water-bodies, updates to the SWMP were completed and posted on the Town's website.

Measurable Goal(s):

The website was visited 87 times in PY4.

Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

completed by a intra party.
MCM1: Public Education
Number of educational messages completed during this reporting period: 4
Below, report on the educational messages completed during this reporting period. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.
BMP: Multimedia Methods for Residents
Message Description and Distribution Method:
The Town of Carver maintains a stormwater webpage with educational information for residents. Educational topics include the proper use of slow-release fertilizers, pet waste management, leaf litter management, and proper care of septic systems. These material were used to meet the requirements per Appendix H for discharge to waters impaired for phosphorus and nitrogen.
Targeted Audience: Residents
Responsible Department/Parties: Conservation Commission/ Board of Health
Measurable Goal(s): The website was visited 87 times in PY4.
Message Date(s): The messages are available all year on the Town's website.
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ⊠
Was this message different than what was proposed in your NOI? Yes O No •
If yes, describe why the change was made:
BMP:Multimedia Methods for Businesses Message Description and Distribution Method: The Town of Carver maintains a stormwater webpage with education information for businesses on topics such as managing grease waste, cleaning up spills, preventing pollution, and winter deicing.
Targeted Audience: Businesses, institutions and commercial facilities
Responsible Department/Parties: Conservation Commission/ Board of Health

Message Completed for: Appendix F Requirements ☐ Appendix H Requireme	own of Carver	Page 9
Message Completed for: Appendix F Requirements ☐ Appendix H Requireme		**************************************
Was this message different than what was proposed in your NOI? Yes ○ No ● f yes, describe why the change was made: **MP:Multimedia Methods for Construction Developers** Message Description and Distribution Method: The Town of Carver maintains a stormwater webpage with educational information for construction levelopers on crosion and sediment control and BMP maintenance. **Pargeted Audience: Developers (construction)** Responsible Department/Parties: Conservation Commission/ Board of Health Measurable Goal(s): The website was visited 87 times in PY4. **Message Date(s): The messages are available all year on the Town's website. **Message Completed for: Appendix F Requirements □ Appendix H Requirements □ Vas this message different than what was proposed in your NOI? Yes ○ No ● f yes, describe why the change was made: **MP:Multimedia Methods for Industrial Facilities Message Description and Distribution Method: The Town of Carver has very few industrial facilities. However, the Town maintains a stormwater webpage with educational information for automotive facilities on practicing good housekeeping and pollution revention. **Pargeted Audience: Industrial facilities Responsible Department/Parties: Conservation Commission/ Board of Health Measurable Goal(s):	Message Date(s): The messages are available all year on the Town's website.	
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	Responsible Department/Parties: Conservation Commission/ Board of Health	
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	The website was visited 87 times in PY4.	_

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Message Date(s): The mess	sages are available all year on the To	own's website.
Message Completed for:	Appendix F Requirements	Appendix H Requirements 🖂
Was this message different	than what was proposed in your NC	DI? Yes ○ No ●
If yes, describe why the cha	ange was made:	
		THE CONTRACT OF MARKET OF THE CONTRACT OF THE
L		
	Add an Educational M	1essage
	MCM2: Public Parti	icipation
Describe the opportunity pr Program (SWMP) during t		e development of the Stormwater Manageme
The Carver Stormwater Tas metrics. No changes were s	-	I reviewed the SWMP BMP's and reporting
Was this opportunity differe	ent than what was proposed in your	NOI? Yes O No 💿
Describe any other public in	nvolvement or participation opportu	nities conducted during this reporting peri
мсмз	: Illicit Discharge Detection a	and Elimination (IDDE)
MCM3 Sanitary Sewer Overflows	-	and Elimination (IDDE)
Sanitary Sewer Overflows Check off the box below if th	s (SSOs) he statement is true.	
Sanitary Sewer Overflows Check off the box below if th	s (SSOs)	
Sanitary Sewer Overflows Check off the box below if the This SSO see	s (SSOs) he statement is true. ection is NOT applicable because we	

Number of SSOs removed: 0
MS4 System Mapping
Optional: Provide additional status information regarding your map:
Municipally-owned stormwater treatment structures were identified. Initial catchment delineations were not identified due to lack of information on piped catch basin system. Remainder of catch basins are leaching and catchment delineations are limited to paved roads.
Screening of Outfalls/Interconnections
If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring results should include the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results from all analyses. Please also include the updated inventory and ranking of outfalls/interconnections based on monitoring results.
No outfalls were inspected
O The outfall screening data is attached to the email submission
O The outfall screening data can be found at the following website:
No outfalls were inspected from this reporting period.
Below, report on the number of outfalls/interconnections screened during this reporting period. Number of outfalls screened: 0
Below, report on the percent of outfalls/interconnections screened to date.
Percent of outfalls screened: 0
Optional: Provide additional information regarding your outfall/interconnection screening:
No outfall screenings were conducted in this reporting period.
Catchment Investigations If conducted, please submit all data collected during this reporting period as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment. One catchment investigation were conducted The catchment investigation data is attached to the email submission The catchment investigation data can be found at the following website:
No catchment investigations were conducted in this reporting period.
Below, report on the number of catchment investigations completed during this reporting period.
Number of catchment investigations completed this reporting period: 0
Below, report on the percent of catchments investigated to date.
Percent of total catchments investigated: 0

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Optional: Provide any additional information for clarity regarding the catchment investigations below:

Initial catchment delineations were not identified due to lack of information on limited piped catch basin system in three areas of Carver. The remainder of catch basins are leaching catch basins. Standard catchment delineation methodology is ineffective in the highly pervious, sandy soils found in Carver, and catchment areas are limited to paved roads. A detailed topographic map book for the outfalls was created in lieu of the delineations to identify high points on the roadways.

ID	DE	Pro	gress

If illicit discharges were found, please submit a document describing work conducted over this reporting
period, and cumulative to date, including location source; description of the discharge; method of discovery,
date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and
schedule of removal.

scneauie oj removai.	
 No illicit discharges were found 	
 The illicit discharge removal report is at 	tached to the email submission
O The illicit discharge removal report can	be found at the following website:
Below, report on the number of illicit discharges identij removed during this reporting period.	fied and removed, along with the volume of sewage
Number of illicit discharges identified:)
Number of illicit discharges removed:)
Estimated volume of sewage removed:	gallons/day
Below, report on the total number of illicit discharges in the number of illicit discharges identified and removed .	dentified and removed to date. At a minimum, report on since the effective date of the permit (July 1, 2018).
Total number of illicit discharges identif	ied: 0
Total number of illicit discharges remov	ed: 0
Optional: Provide any additional information for clarity planned to be removed below:	y regarding illicit discharges identified, removed, or
No illicit discharges have been identified in the Town of	of Carver.
l	
Employee Training	

Describe the frequency and type of employee training conducted during this reporting period:

Carver Operations and Maintenance Staff received IDDE training on 6/20/22. The sign in sheet is attached to the annual report.

MCM4: Construction Site Stormwater Runoff Control

Below, report on the construction site plan reviews, inspections, and enforcement actions completed during this reporting period.
Number of site plan reviews completed: 11
Number of inspections completed: 2
Number of enforcement actions taken: 0
Optional: Enter any additional information relevant to construction site plan reviews, inspections, and enforcement actions:
MCM5: Post-Construction Stormwater Management in New Development and
Redevelopment
Ordinance or Regulatory Mechanism
Due to budget limitations this update has been
Date update was completed (due in year 3): delayed. The new Town Planner will be assisting with regulatory review in PY5 and PY6
As-built Drawings
Below, report on the number of as-built drawings received during this reporting period.
Number of as-built drawings received: 0
Optional: Enter any additional information relevant to the submission of as-built drawings:
No as-built drawings were received by the Town's Planning Department consultant. The sediment and erosion
control bylaws have not been reviewed due to staff shortages and severe limitations with Town Budget. This
requirement has been postponed until PY6.
Retrofit Properties Inventory
Below, list the permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas (at least 5):
A BMP retrofit inventory has not been completed to date. This requirement is scheduled for PY5.

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MCM6: Go	od Housekeeping
Catch Basin Cleaning Below, report on the number of catch basins inspecte emoved from the catch basins during this reporting	ed and cleaned, along with the total volume of material period.
Number of catch basins inspected: 21	
Number of catch basins cleaned: 21	
Total volume or mass of material rem	noved from all catch basins: 100 tons
elow, report on the total number of catch basins in	the MS4 system.
Total number of catch basins: 1,055	
f applicable:	
Report on the actions taken if a catch basin sump is r nspections/cleaning events:	nore than 50% full during two consecutive routine
No sumps were more than 50% full.	
treet Sweeping	
eport on street sweeping completed during this repo	orting period using one of the three metrics below.
Number of miles cleaned:	
O Volume of material removed:	[Select Units]
• Weight of material removed: 130	tons
tormwater Pollution Prevention Plan (SWPPP)	divide a company to the are
elow, report on the number of site inspections for fa e <mark>porting period</mark> .	icilities that require a SWPPP completed during this
Number of site inspections completed	: 4

No corrective	corrective actions taken at a facility with a SWPPP: actions were needed.
Results from an reporting perio	Additional Information Study Results ny other stormwater or receiving water quality monitoring or studies conducted during the od not otherwise mentioned above, where the data is being used to inform permit compliance or eness must be attached.
	Not applicable The results from additional reports or studies are attached to the email submission The results from additional reports or studies can be found at the following website(s):
	ring or studies were conducted on your behalf or if monitoring or studies conducted by other eported to you, a brief description of the type of information gathered or received shall be w:
Additional Int	<u>formation</u>
	er any additional information relevant to your stormwater management program implementation orting period. Include any BMP modifications made by the MS4 if not already discussed above:
Due to budget the Town appl Watershed Pro	, minimal progress was made on stormwater managment program permit requirements, however lied for and was granted an award from the Buzzard Bay National Estuarine Research Reserve ogram for implementation in PY5. Outstanding tasks from PY4 including the Local Code d BMP Retrofit Inventory will be completed in PY5 with the assistance of the grant funding.
1	
COVID-19 In	ı <u>pacts</u>
Optional: If an please identify	ny of the above year 4 requirements could not be completed due to the impacts of COVID-19, where the the the three

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Activities Planned for Next Reporting Period
Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit
requirements including but not limited to the year 5 requirements summarized below. (Note: impaired waters
and TMDL requirements are not listed below)
Yes, I agree 🛛
Annual Requirements
- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to
receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in
connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards,
transfer stations, and other waste handling facilities
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings
and facilities, and vehicles and equipment; update if necessary
- Review O&M programs for all permittee owned facilities; update if necessary
 Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction
bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)
- Identify additional permittee-owned properties that could potentially be modified or retrofitted
with BMPs to reduce impervious areas so that the permittee maintains a minimum of 5 sites in their inventory, until such a time when the permittee has less than 5 sites remaining
Provide any additional details on activities planned for permit year 5 below:

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Part V: Certification of Small MS4 Annual Report 2021

40 CFR 144.32(d) Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name:	Robert Fennessy	Title:	Town Administrator
	[Signatory may be a duly authorized representative]	Date:	